

Work Order ID 53170

October 26, 2009 9:02:20 AM



Page 1

Item ID: D205-634-041
Revision ID: D
Item Name: Replacement Skidtube

Accept



Setup Start
Stop



Start Date: 26/10/2009 Start Qty: 1.00
Required Date: 10/11/2009 Req'd Qty: 1.00



Cust Item ID:
Customer:

Reference:

Approvals: Process Plan: PS Date: 09-10-26 Tooling: _____ Date: _____
QC: _____ Date: _____ SPC (Y/N): _____ Date: _____

Run Start
Stop



Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Draw Number	Draw Rev.	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
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Draw Nbr	Revision Nbr
D2580	Rev D

100	DOCUMENT CONTROL	0.00							
DC	Memo	0.00							
Document Control	Photocopy D205-634 bluefile & type labels per PPP D205-634-041 CHG002								

Handwritten: JF for BG 09/11/30

110	BENDING MACHINE - SKIDTUBES	0.00							
CNC Bend I	Memo	0.00							
CNC Delta 100 Bender	1-Bend as per program D2580.C on CNC Bender and Folio FT009 2-Cut tubes as per Dwg. D2580								

Handwritten: 9-10-30

Handwritten: 53170

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: D205-634-041 PAR #: N/A Fault Category: Skedhibes NCR: Yes No DQA: h Date: 09.12.08
 Resolution: Re-work Disposition: Re-work QA: N/C Closed: h Date: 03.12.11

NCR: <u>53170</u>		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			
09.11.10	110	LONGITUDINAL MARKS IN FWD BEND, ON TOP OF TUBE, FROM BENDING P.C. process.	<u>UP</u> 09.11.10 per OSI 042	OK TO FILL W/ WELD SEE ATTACHED PS EMAIL A/R M111999	<u>BE</u> 09/11/11	<u>S</u> 02/11/17	<u>UP</u> 09.11.10 per OSI 042	<u>S</u> 02/11/17

NOTE: Date & initial all entries

Work Order ID 53170

October 26, 2009 9:02:20 AM



Page 2

Item ID: D205-634-041

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Setup Start



Revision ID: D

Stop



Item Name: Replacement Skidtube

Start Date: 26/10/2009 Start Qty: 1.00



Cust Item ID:

Required Date: 10/11/2009 Req'd Qty: 1.00



Customer:

Reference:

Run Start



Approvals: Process Plan: _____ Date: _____ Tooling: _____ Date: _____

Stop



QC: _____ Date: _____ SPC (Y/N): _____ Date: _____

Sequence ID/
Work Center ID

Operation
Description

Set Up/
Run Hours

Draw
Number

Draw
Rev.

Plan
Code

Accept
Qty

Reject
Qty

Reject
Number

Insp.
Stamp

120

0.00



Skidtubes

Memo

0.00

Skidtubes

1- Deburr ends

2- C'sink holes as per dwg without cutting fluid

3- Prepare tube for welding, remove alodine as required.

4- Scribe batch number insied aft end of tube.

(1X)

0

MB 09-11-05

130

QC5- Inspect part completeness to step on W/O

0.00



QC

Memo

0.00

Quality Control

(1)

0

BE 09/11/11

Work Order ID 53170

October 26, 2009 9:02:20 AM

Page 3

Item ID: D205-634-041

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Cust Item ID:

Required Date: 10/11/2009 Req'd Qty: 1.00

Customer:

Reference:

Approvals: Process Plan: _____ Date: _____ Tooling: _____ Date: _____

Run Start

QC: _____ Date: _____ SPC (Y/N): _____ Date: _____

Stop

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Draw Number	Draw Rev.	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
--------------------------------	--------------------------	----------------------	----------------	--------------	--------------	---------------	---------------	------------------	----------------

140

0.00



Skidtubes

Memo

0.00

Skidtubes

1-Weld step D2576 as per Dwg. D2580 and QSI 004
A/R□□□ Aluminum Rod *mill 999**BE 09/11/11*

2-Prep per QSI 005 and weld crossbolt spacers D2579 as per Dwg. D2580, QSI 004.

For D2579 spacers, weld one side, pass 3/8" drill, weld other side, pass 3/8" drill
A/R□□□ Aluminum Rod *mill 999**BE 09/11/11*

3-Grind welds as per Dwg D2580 Grind flush ridge made from bending

4-Drill holes for wearplates using DT 8217 & DT8937 Open holes to 19/64",
adjust stopper not to hit web. Deburr5-Counterbore crossbolt spacers to 7/16" ID x 1.0" deep as per Dwg D2580.
Deburr holes

6-Drill pilot holes for aft cap using DT 8215 Open holes to 0.208". Deburr

7-Drill pilot holes for Towring using DT8091, open to .640" and Deburr

AWM 9-11-16

Work Order ID 53170

October 26, 2009 9:02:20 AM



Page 4

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Cust Item ID:

Required Date: 10/11/2009 Req'd Qty: 1.00



Customer:

Reference:

Run Start



Approvals: Process Plan: _____ Date: _____ Tooling: _____ Date: _____

Stop



QC: _____ Date: _____ SPC (Y/N): _____ Date: _____

Sequence ID/
Work Center IDOperation
DescriptionSet Up/
Run HoursDraw
NumberDraw
Rev.Plan
CodeAccept
QtyReject
QtyReject
NumberInsp.
Stamp

150

QC10- Inspect visual per QSI004- ground welds

0.00



⇒ 8 Oct 11/17

QC

Memo

0.00

Quality Control



160

QC5- Inspect part completeness to step on W/O

0.00



⇒ 8 Oct 11/17

QC

Memo

0.00

Quality Control



170

Pressure Wash per QSI005 4.3

0.00



⇒ 8 Oct 11/18

HandFinish

Memo

0.00

Hand Finishing



Work Order ID 53170

October 26, 2009 9:02:20 AM



Page 5

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Setup Start



Stop



Start Date: 26/10/2009 Start Qty: 1.00



Cust Item ID:

Required Date: 10/11/2009 Req'd Qty: 1.00



Customer:

Reference:

Run Start



Stop



Approvals: Process Plan: _____ Date: _____ Tooling: _____ Date: _____

QC: _____ Date: _____ SPC (Y/N): _____ Date: _____

Sequence ID/
Work Center ID

Operation
Description

Set Up/
Run Hours

Draw
Number

Draw
Rev.

Plan
Code

Accept
Qty

Reject
Qty

Reject
Number

Insp.
Stamp

180



Powdercoat

Powder Coating

White Gloss(Ref:4.3.5.1) per QSI005 4.3-Alum

0.00

Memo

START TIME:

OVEN TEMPERATURE:

FINISH TIME:

2:30pm

320°F

3:00pm

0.00

⇒ 41 09/11/18



190



QC

Quality Control

QC3- Inspect Part Finish

0.00

Memo

0.00

09/12/20

Work Order ID 53170

October 26, 2009 9:02:20 AM



Page 6

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Stop



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Start Date: 26/10/2009 Start Qty: 1.00



Cust Item ID:

Required Date: 10/11/2009 Req'd Qty: 1.00



Customer:

Reference:

Run Start



Approvals: Process Plan: _____ Date: _____ Tooling: _____ Date: _____

Stop



QC: _____ Date: _____ SPC (Y/N): _____ Date: _____

Sequence ID/
Work Center ID

Operation
Description

Set Up/
Run Hours

Draw
Number

Draw
Rev.

Plan
Code

Accept
Qty

Reject
Qty

Reject
Number

Insp.
Stamp

200

0.00



HandFinish

Memo

0.00

Hand Finishing

1-Install inserts & wearplates & Gaskets as per Dwg. D2580. Use a drop of Sikaflex on insert holes before installing wearplates

A/R ☐ ☐ ☐ Sikaflex-291 ☐ m112391

Sikaflex expire date: 10/20

2-Coat D2594-3 O' rings with Petroleum Jelly and install on D2594-1 plugs as per Dwg D2580

3-Inspect for foreign object per QSI 024

4-Install 2855 Aft Cap as per Dwg D2580 and seal Fwd Step & Aft Cap with Sikaflex. Clean excess adhesive

A/R ☐ ☐ ☐ Sikaflex-291 ☐ m112391

Sikaflex expire date: 10/20

5-Wing Walk as per Dwg D2580 and QSI 005 4.4

Batch: m112623

MO 09/11/19

Work Order ID 53170

October 26, 2009 9:02:20 AM



Page 7

Item ID: D205-634-041

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Setup Start



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Stop



Item Name: Replacement Skidtube

Start Date: 26/10/2009 Start Qty: 1.00



Cust Item ID:

Required Date: 10/11/2009 Req'd Qty: 1.00



Customer:

Reference:

Run Start



Approvals: Process Plan: _____ Date: _____ Tooling: _____ Date: _____

Stop



QC: _____ Date: _____ SPC (Y/N): _____ Date: _____

Sequence ID/
Work Center IDOperation
DescriptionSet Up/
Run HoursDraw
NumberDraw
Rev.Plan
CodeAccept
QtyReject
QtyReject
NumberInsp.
Stamp

210

QC5- Inspect part completeness to step on W/O

0.00



QC

Memo

0.00

Quality Control

Inspect Aft Cap, Fwd Step and Wing Walk of work to Current Step Inspect for Foreign objects per QSI 024

27 809/11/17



220

Packaging

0.00



Packaging

Memo

0.00

Packaging

Identify and pack for shipping as per PPPD205-634-041

Location: _____

PPP Rev: 7

09/12/2009

230

QC21- Final Inspection - Work Order Release

0.00



QC

Memo

0.00

Quality Control

09/12/03
MRF
09-12-02

Picklist Print

October 26, 2009 9:02:24 AM

Page 1

Work Order ID: 53170

Parent Item: D205-634-041RevD

Parent Item Name: Replacement Skidtube

Start Date: 26/10/2009

Required Date: 10/11/2009

Comments:

Start Qty: 1.00

Required Qty: 1.00

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Remaining Qty To Pick	Qty Issued	Date Issued	Status
D2580-1RevD		Manufactured	No			110	Each	0.0000	1.0000			
205 Skidtube bent detail												
D2576-3RevG		Manufactured	No			140	Each	169.0000	1.0000			
Step (maching detail)												

Warehouse Loc Qty Loc Code

Location

Main Warehouse

ST	169
43504	21
46661	101
52215	47

D2579RevE

Manufactured No

140

Each

695.0000

20.0000

Crossbolt Spacer

Warehouse

Loc Qty

Loc Code

Location

Main Warehouse

LG	573
51525	573

Main Warehouse

ST	122
43988	4
46434	4
46956	2
47797	9
48272	2
51314	71
51315	30

1 DE 09/11/11

20 DE 09/11/11

Picklist Print

Page 2

October 26, 2009 9:02:24 AM

Work Order ID: 53170

Parent Item: D205-634-041RevD

Parent Item Name: Replacement Skidtube

Start Date: 26/10/2009

Required Date: 10/11/2009

Comments:

Start Qty: 1.00

Required Qty: 1.00

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Remaining Qty To Pick	Qty Issued	Date Issued	Status
D2855RevA		Manufactured	No			200	Each	106.0000	1.0000			
Cap												

Warehouse

Loc Qty

Loc Code

Location

Main Warehouse

FP6

106

50513

1

50770

5

51539

100

AN3-5A

Purchased

No

200

Each

2,249.000

2.0000

Bolt

Warehouse

Loc Qty

Loc Code

Location

Main Warehouse

ST

2249

100188

188

105057

2061

X1 MD 09/11/19

X2 MD 09/11/19

Picklist Print

October 26, 2009 9:02:24 AM

Page 3

Work Order ID: 53170

Parent Item: D205-634-041RevD

Parent Item Name: Replacement Skidtube


Comments:

Start Date: 26/10/2009

Required Date: 10/11/2009

Start Qty: 1.00

Required Qty: 1.00

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Remaining Qty To Pick	Qty Issued	Date Issued	Status
AN960JD10L 		Purchased	No			200	Each	5,949.000	2,0000			
Washer												

<u>Warehouse</u>	<u>Loc Qty</u>	<u>Loc Code</u>
<u>Location</u>		
Main Warehouse		
ST	5949	
101291	16	
104885	153	
105793	236	
109632	544	
110985	5000	

X2 MD 09/11/19

ALS7-1032-130

Purchased

No

200

Each

2,234.000 50.0000



Insert

<u>Warehouse</u>	<u>Loc Qty</u>	<u>Loc Code</u>
<u>Location</u>		
Main Warehouse		
ST	2234	
105855	16	
108606	52	
111529	1488	
111779	313	
112772	365	

110511

X50 MD 09/11/19

Picklist Print

Page 4

October 26, 2009 9:02:24 AM

Work Order ID: 53170

Parent Item: D205-634-041RevD

Parent Item Name: Replacement Skidtube

Start Date: 26/10/2009

Required Date: 10/11/2009

Comments:

Start Qty: 1.00

Required Qty: 1.00

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Remaining Qty To Pick	Qty Issued	Date Issued	Status
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AN3C4A		Purchased	No			200	Each	1,474.000	50.0000			
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BOLT

Warehouse Location	Loc Qty	Loc Code
Main Warehouse		
ST	1474	
112314	13	
112720	12	
112724	3	
112794	846	
112829	500	
112991	100	

VSO MD 09/11/19

AN960C10L		Purchased	No			200	Each	4,868.000	50.0000			
-----------	--	-----------	----	--	--	-----	------	-----------	---------	--	--	--



washer

Warehouse Location	Loc Qty	Loc Code
OFFSHORE		
FG	100	
103585	100	
Main Warehouse		
ST	4768	
112116	876	
112612	2892	
112933	1000	

VSO MD 09/11/19

October 26, 2009 9:02:24 AM

Shop Packet Print

Page 4

Picklist Print

Page 5

October 26, 2009 9:02:25 AM

Work Order ID: 53170



Parent Item: D205-634-041RevD



Parent Item Name: Replacement Skidtube

Start Date: 26/10/2009

Required Date: 10/11/2009

Comments:

Start Qty: 1.00

Required Qty: 1.00

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Remaining Qty To Pick	Qty Issued	Date Issued	Status
D3566-13RevC		Manufactured	No			200	Each	33.0000	1.0000			

Gasket

<u>Warehouse</u>	<u>Loc Qty</u>	<u>Loc Code</u>
<u>Location</u>		
Main Warehouse		
FP	31	
51606	31	
Main Warehouse		
ST	2	
45717	1	
50265	1	

X1 MD 09/11/19

Picklist Print

Page 6

October 26, 2009 9:02:25 AM

Work Order ID: 53170



Parent Item: D205-634-041RevD



Parent Item Name: Replacement Skidtube

Start Date: 26/10/2009

Required Date: 10/11/2009

Comments:

Start Qty: 1.00

Required Qty: 1.00

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Remaining Qty To Pick	Qty Issued	Date Issued	Status
D3566-5RevC		Manufactured	No			200	Each	37.0000	1.0000			
Gasket												

<u>Warehouse</u>	<u>Loc Qty</u>	<u>Loc Code</u>
<u>Location</u>		
Main Warehouse		
FP	12	
51929	12	
Main Warehouse		
FP19	21	
51669	1	
52909	20	
Main Warehouse		
ST	4	
36113	1	
46186	1	
47318	1	
51260	1	

XT m009/11/19

Picklist Print

Page 7

October 26, 2009 9:02:25 AM

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Parent Item: D205-634-041RevD

Parent Item Name: Replacement Skidtube

Start Date: 26/10/2009

Required Date: 10/11/2009

Comments:

Start Qty: 1.00

Required Qty: 1.00

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Remaining Qty To Pick	Qty Issued	Date Issued	Status
D3566-1RevC		Manufactured	No			200	Each	26.0000	2.0000			
Gasket												

<u>Warehouse</u>	<u>Loc Qty</u>	<u>Loc Code</u>
<u>Location</u>		
Main Warehouse		
FP	21	
52512	21	
Main Warehouse		
ST	5	
46349	1	
51218	1	
51259	3	

53455

X2 MD 09/11/19

Picklist Print

Page 8

October 26, 2009 9:02:25 AM

Work Order ID: 53170

Parent Item: D205-634-041RevD

Parent Item Name: Replacement Skidtube

Comments:

Start Date: 26/10/2009

Required Date: 10/11/2009

Start Qty: 1.00

Required Qty: 1.00

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Remaining Qty To Pick	Qty Issued	Date Issued	Status
---------------------------------	------------------------	---------------	-------------	---------------------	------------------	-----------------	--------------------	----------------	--------------------------	---------------	----------------	--------

D3564-11RevD

Manufactured

No

200

Each

46.0000

1.0000



Wearshoe

Warehouse

Loc Qty

Loc Code

Location

Main Warehouse

FP

11

51905

11

Main Warehouse

FP19

33

51594

10

52125

23

Main Warehouse

ST

2

45823

1

50112

1

X1 m009/11/19

October 26, 2009 9:02:25 AM

Shop Packet Print

Page 8

Picklist Print

Page 9

October 26, 2009 9:02:25 AM

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Comments:

Start Date: 26/10/2009

Required Date: 10/11/2009

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Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Remaining Qty To Pick	Qty Issued	Date Issued	Status
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D3564-13RevD		Manufactured	No			200	Each	56.0000	1.0000			
--------------	--	--------------	----	--	--	-----	------	---------	--------	--	--	--



Wearshoe

Warehouse	Loc Qty	Loc Code
-----------	---------	----------

Location

Main Warehouse

FP17	44	
------	----	--

51611	33	
-------	----	--

52059	11	
-------	----	--

Main Warehouse

ST	12	
----	----	--

45409	2	
-------	---	--

46495	10	
-------	----	--

X1 mb 09/11/19

D3564-9RevD

Manufactured No

200

Each

10.0000

1.0000



Wearshoe

Warehouse	Loc Qty	Loc Code
-----------	---------	----------

Location

Main Warehouse

FP19	8	
------	---	--

51675	8	
-------	---	--

Main Warehouse

ST	2	
----	---	--

44659	1	
-------	---	--

45825	1	
-------	---	--

X1 mb 09/11/19

October 26, 2009 9:02:25 AM

Shop Packet Print

Page 9

Picklist Print

October 26, 2009 9:02:25 AM

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Comments:

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D3564-5RevD		Manufactured	No			200	Each	37.0000	1.0000			
Wearshoe												

Warehouse	Loc Qty	Loc Code
<u>Location</u>		
OFFSHORE		
FG	2	
34806	2	
Main Warehouse		
FP19	18	
51655	10	
51925	8	
Main Warehouse		
ST	17	
45824	1	
47433	1	
52595	15	

X1 MD 09/11/09

D2594-3RevC

Manufactured No

200

Each

1,050.000

16.0000



O-Ring, 205 Skidtube

Warehouse	Loc Qty	Loc Code
<u>Location</u>		
Main Warehouse		
FP	50	
51613	50	
Main Warehouse		
ST	1000	
52562	1000	

X16 MD 09/11/09

Picklist Print

Page 11

October 26, 2009 9:02:25 AM

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Parent Item: D205-634-041RevD



Parent Item Name: Replacement Skidtube



Start Date: 26/10/2009

Required Date: 10/11/2009

Comments:

Start Qty: 1.00

Required Qty: 1.00

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D2594-1RevC		Manufactured	No			200	Each	601.0000	16.0000			
												
Plug, 205 Skidtube												

<u>Warehouse</u>	<u>Loc Qty</u>	<u>Loc Code</u>
<u>Location</u>		
Main Warehouse		
ST	601	
42221	16	
42807	92	
43884	3	
46435	2	
51527	9	
51757	479	

X16 MD 09/11/19

DART**RELEASED**
07-06-28 #

DESIGN #	DRAWN BY RH	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
CHECKED #	APPROVED #	DRAWING NO. D2580	REV. D SHEET 1 OF 3
DATE 07.02.27		TITLE 205 SKIDTUBE ASSEMBLY	SCALE NTS
A	96.09.16	NEW ISSUE	
B	96.12.02	AS MANUFACTURED	
C	98.08.26	REDRAWN, INCLUDED DEO 9094/9097	
D	07.02.27	CHANGE TO SS WEARPLATES AND GASKETS, INCLUDE DEO 9124/9183	

QTY -041	QTY -045	Part Number	Description
X		D2580-041	SKIDTUBE ASSEMBLY
	X	D2580-045	SKIDTUBE ASSEMBLY
1	1	D2500-1-190	EXTRUSION
1	1	D2576-3	STEP
20	24	D2579	CROSS BOLT SPACER
16	16	D2594-1	PLUG
16	16	D2594-3	O-RING
1	1	D2596	205 WEB
1	1	D2855	AFT CAP
1	1	D3564-5	WEARSHOE
1	1	D3564-9	WEARSHOE
1	1	D3564-11	WEARSHOE
1	1	D3564-13	WEARSHOE
2	2	D3566-1	GASKET
1	1	D3566-5	GASKET
1	1	D3566-13	GASKET
50	50	ALS7-1032-130 or AKS7-1032-130 or AKS4-1032-130 or AELS-1032-130	INSERT
50	50	AN3C4A	BOLT
2	2	AN3-5A	BOLT
50	50	AN960C10L	WASHER
2	2	AN960JD10L	WASHER

SHOP COPY
RETURN TO
ENGINEERING
UNCONTROLLED COPY
SUBJECT TO AMENDMENT
WITHOUT NOTICE
WORK ORDER
NO. 53170

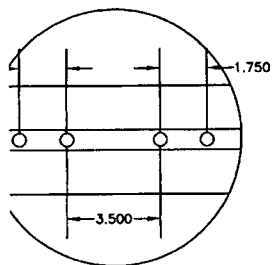
GENERAL NOTES:

- 1) TOLERANCES ARE PER DART QSI 018 UNLESS OTHERWISE NOTED
- 2) ALL DIMENSIONS ARE IN INCHES
- 3) INSERT D2596 WEB TO LOCATION SHOWN OFF AFT END OF SKIDTUBE AND BOND WEB INTO OUTER TUBE WITH NON-STRUCTURAL SIKAFLEX-241 ADHESIVE PER DART QSI 015 BEFORE BENDING. ENSURE HOLES LINE-UP.
- 4) BEND AS A SMOOTH RADIUS STARTING WITH A MAXIMUM CENTERLINE RADIUS OF 60 AND ENDING WITH A MINIMUM RADIUS OF 30. A MAXIMUM REDUCTION OF 0.200 IN DIAMETER IS ALLOWABLE IN THE BENT PORTION OF THE TUBE.
- 5) USE DART DRILL TEMPLATE TD2577-205 TO LOCATE AND DRILL Ø0.297 HOLES FOR WEARSHOE INSERTS. INSTALL ALS7-1032-130 PER SECTION D-D (50 PLACES) AFTER FINISH. INSTALL AN3C4A BOLTS AND AN960C10L WASHERS WITH SIKAFLEX-241/-291.
- 6) WELDING TO BE DONE PER DART QSI 004.
- 7) FINISH:
SEE NOTES ON
PAGE 2 FOR D2580-041 AND
PAGE 3 FOR D2580-045
- 8) INSERT D2594-1 PLUG C/W D2594-3 O-RING IN HOLES MARKED 'P' (BOTH SIDES OF TUBE) AFTER FINISH (16 PLACES).

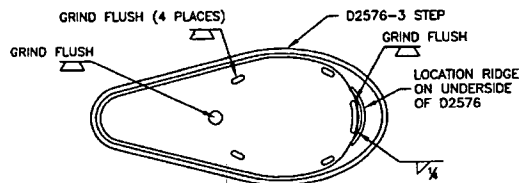
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DETAIL A SCALE 5:24

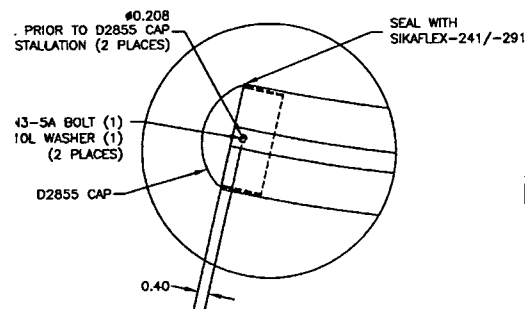


DETAIL B SCALE 5:24

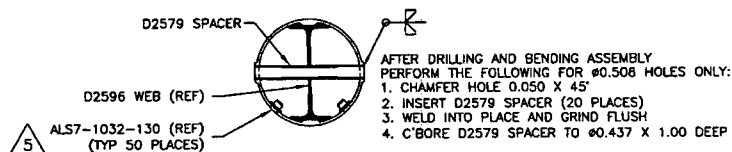


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07.06.28

DETAIL C SCALE 5:24



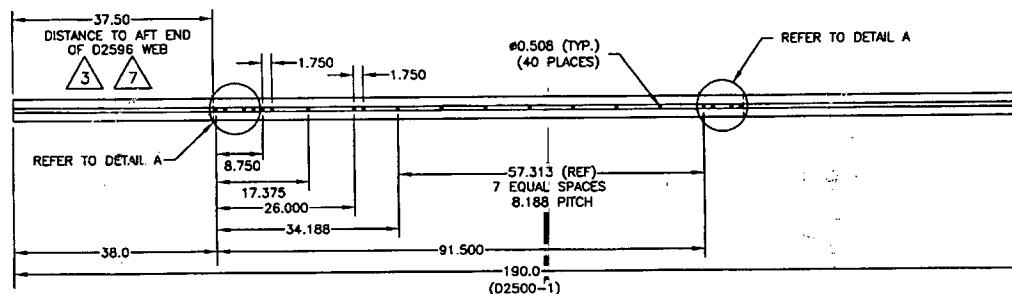
SECTION D-D SCALE 5:24



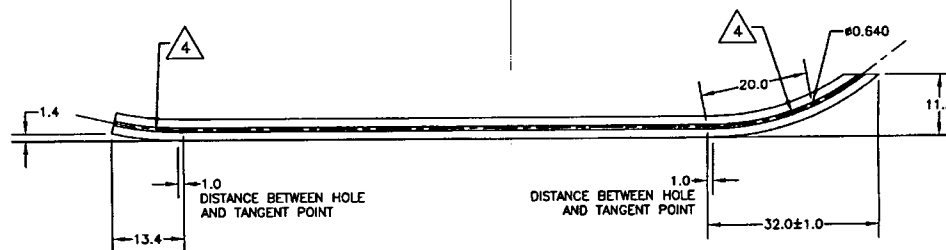
-041 NOTES

FINISH: ACID ETCH, ALODINE PER DART QSI 005 4.1 PRIOR TO INSERTING D2596 WEB
POWDER COAT ASSEMBLY GLOSS WHITE (REF. 4.3.5.1) PER DART QSI 005 4.3
BLACK ANTI-SKID PAINT AS INDICATED PER DART QSI 005 4.4

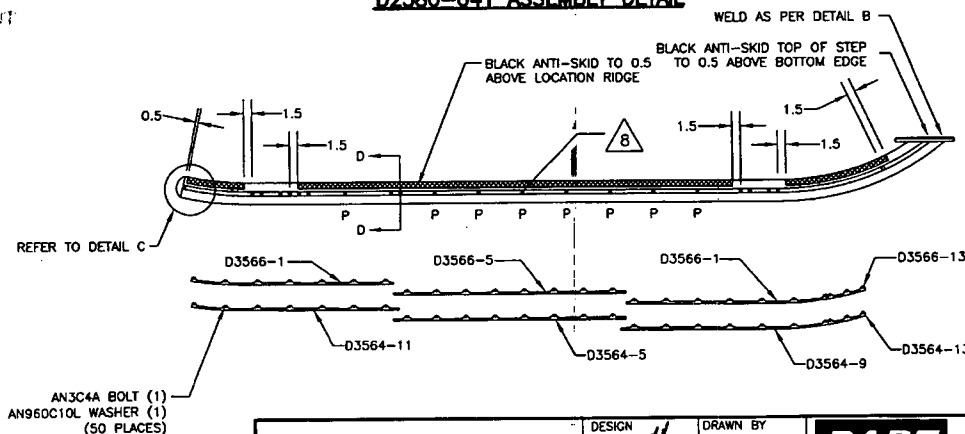
D2580-1 DRILLING DETAIL



D2580-1 BENDING AND CUTTING DETAIL



D2580-041 ASSEMBLY DETAIL

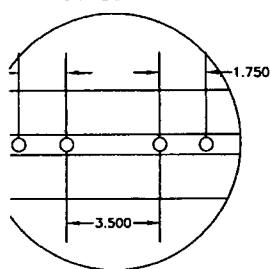


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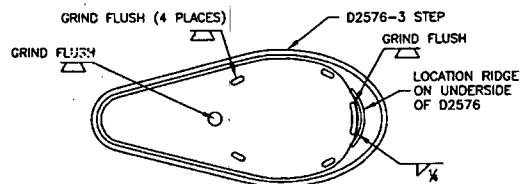
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DESIGN	DRAWN BY	DART	DART AEROSPACE LTD. HARRISBURT, ONTARIO, CANADA
CHECKED	APPROVED	DRAWING NO. D2580	REV. 0 SHEET 2 OF 3
DATE 07.02.27		TITLE 205 SKIDTUBE ASSEMBLY	SCALE 1:24

DETAIL E
SCALE 5:24

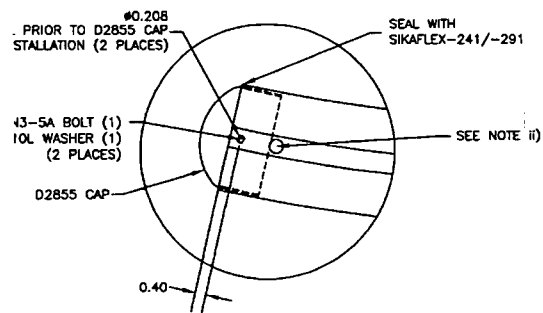


DETAIL F
SCALE 5:24

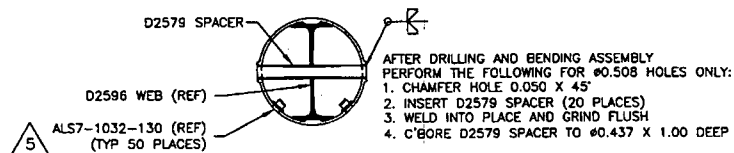


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07-06-28

DETAIL G
SCALE 5:24



SECTION H-H
SCALE 5:24

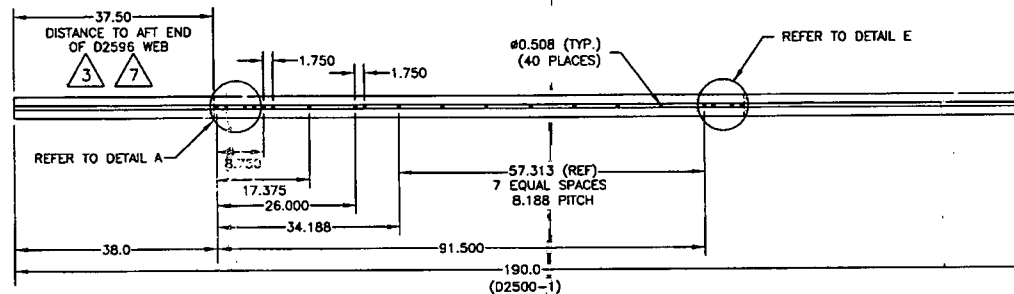


-045 NOTES

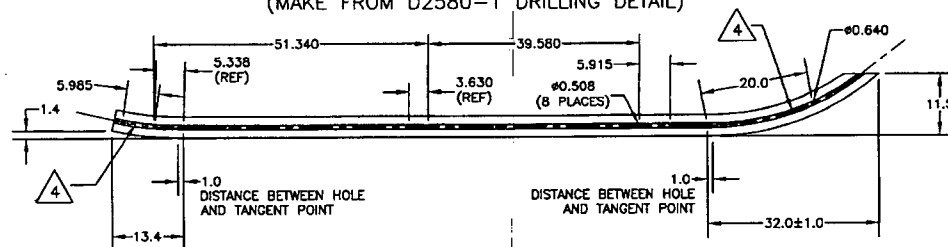
INISH: ACID ETCH, ALODINE PER DART QSI 005 4.1 PRIOR TO INSERTING D2596 WEB
POWDER COAT ENTIRE ASSEMBLY GREEN (REF. 4.3.5.8) PER DART QSI 005 4.3
BLACK ANTI-SKID PAINT AS INDICATED PER DART QSI 005 4.4

* IS ACCEPTABLE TO GRIND A RELIEF IN THE D2855 AFT CAP TO PREVENT INTERFERENCE WITH THE SPACER AT THIS LOCATION

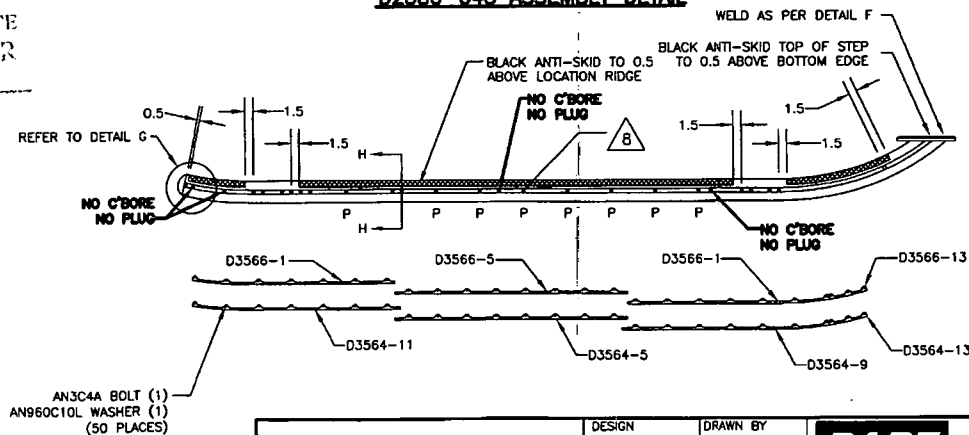
D2580-1 DRILLING DETAIL



D2580-5 BENDING AND CUTTING DETAIL
(MAKE FROM D2580-1 DRILLING DETAIL)



D2580-045 ASSEMBLY DETAIL



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DART AEROSPACE LTD.

DESIGN

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DATE _____

07 02

DRAWN BY

R4

APPROVED,

#

DART

DART AEROSPACE LTD.
HAWKESBURY, ONTARIO, CANADA

DRAWING NO.	
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D2580

TITLE	
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REV. D

SHEET 3 OF 3

SCALE

1:24

Chris Provencal

From: David Shepherd [dshepherd@dartaero.com]
Sent: November 10, 2009 1:03 PM
To: 'Chris Provencal'
Subject: RE: NCR D205-634

Chris,

It is acceptable to fill the depression with weld and grind flush.

David

-----Original Message-----

From: Chris Provencal [mailto:cprovencal@dartaero.com]
Sent: Friday, November 06, 2009 10:13 AM
To: 'David Shepherd'
Subject: NCR D205-634

David,

As I explained, there is a longitudinal mark running along the top (inner radius) of the 205 skid at the fwd bend. The indentation runs along the edge of the indexing ridge. Dan P. stated that he usually gets similar markings but they're usually very small, and they grind everything smooth. This particular mark is deeper than normal (closer to what he sometimes sees on 350's), and he wants to fill with weld.

The attached photo shows the mark the best I could get it, between the arrows I drew.

-Chris

No virus found in this incoming message.

Checked by AVG - www.avg.com

Version: 8.5.425 / Virus Database: 270.14.52/2483 - Release Date: 11/06/09 07:38:00

NO. 215

AWS D17.1.2001
QUALIFICATION TEST RECORD

Name: Barclay Elliott
Job number: 53175
Part number: D205-634.041
Description: 205 skid tube
Welding Process: Tig[☒] Mig[]
Base material: Aluminium
Current: AC[] DC[☒]

TEST REQUIREMENTS AND RESULTS

Visual: pass[☒] fail[]
Penetration: pass[☒] fail[]

UNACCEPTABLE

Cracks: pass[☒] fail[]
Undercut: pass[☒] fail[]
Pin holes: pass[☒] fail[]
Overlap (cold lap): pass[☒] fail[]
Porosity (surface): pass[☒] fail[]
Coloration: pass[☒] fail[]

Qualifier [Signature] Date of Test Coupon 04.11.02

Welder [Signature] Date of Test Coupon 09.11.02

The above named individual is qualified in accordance with AWS D17.1.2001 to weld